

Assessment Summary

Plum Creek 1.65 to 3.9 KY500964_02	 <p>This part of the stream does not support aquatic life, does not support swimming (Primary Contact Recreation), does not support fishing/wading/boating (Secondary Contact Recreation).</p>
UT of Plum Creek to Headwaters	
Muhlenberg County, Green River Basin	
HUC 05110003	
Assessment Date: 11/25/2013	

Use	Cause of Impairment	Suspected Source(s) of Impairment	Basis for Listing	Data Collection and Analysis Methods ^{1,2,3}
 (5-NS)	Escherichia coli	Non-Point Source, Upstream Source	Concentrations exceeded the water quality standard	Pathogen Monitoring, Physical/Chemical Monitoring
 (5-NS)	pH	Legacy coal extraction	Concentrations did not meet the water quality standard	Pathogen Monitoring, Physical/Chemical Monitoring
 (5-NS)	pH	Legacy coal extraction	Concentrations did not meet the water quality standard	Physical/Chemical Monitoring
 (5-NS)	Cadmium	Non-Point Source	Concentrations exceeded the water quality standard	Physical/Chemical Monitoring
 (5-NS)	Nickel	Non-Point Source	Concentrations exceeded the water quality standard	Physical/Chemical Monitoring
 (5-NS)	Oxygen, Dissolved	Legacy coal extraction, Non-Point Source	Concentrations did not meet the water quality standard	Physical/Chemical Monitoring

¹Data locations: Physical/chemical monitoring data and pathogen data can be found on the EPA Water Quality Portal; chemical monitoring data for regulated facilities (e.g. wastewater and drinking water) can be found in the EPA ECHO database (online); biological monitoring summary scores and habitat assessment scores can be found in the EPA STORET database (online); and raw community species data and fish tissue analysis data are available on request through KDOW Open Records (expected in STORET 2015).

²Data Source(s): KDOW

³Data Collection Date(s): 11/18/2010 - 10/20/2011

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 (5-NS)	pH	Legacy coal extraction	Concentrations did not meet the water quality standard	Physical/Chemical Monitoring
 (5-NS)	Physical substrate habitat alterations	Habitat Modification - other than Hydromodification	Man-made or man-induced alteration of the chemical, physical (e.g. habitat), biological, and radiological integrity of water	Physical/Chemical Monitoring
 (5-NS)	Sedimentation/Siltation	Non-Point Source	Sediment deposition is negatively affecting the aquatic community (e.g. habitat smothering) and/or recreation	Physical/Chemical Monitoring
 (5-NS)	Specific Conductance	Legacy coal extraction, Non-Point Source	Elevated dissolved substances are negatively affecting the aquatic community	Physical/Chemical Monitoring
 (5-NS)	Zinc	Non-Point Source	Concentrations exceeded the water quality standard	Physical/Chemical Monitoring

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